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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,930	12/30/2003	Angel Stoyanov	25277	1937
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WEYERHAEUSER COMPANY INTELLECTUAL PROPERTY DEPT., CH 1J27			CORDRAY,	DENNIS R
P.O. BOX 9777		,	ART UNIT	PAPER NUMBER
FEDERAL WA	Y, WA 98063		1731	

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/748,930	STOYANOV ET AL.				
Office Action Summary	Examiner	Art Unit				
	Dennis Cordray	1731				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	1) Responsive to communication(s) filed on					
2a) This action is FINAL . 2b) ⊠ Th	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 12/30/2003.	4) Interview Summar Paper No(s)/Mail 5) Notice of Informal 6) Other:					

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DETAILED ACTION

This is a first action on the merits of Application SN 10/748,930.

Specification

1. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

The abstract of the disclosure is objected to because it contains insufficient description of the invention per the guidelines above. Correction is required. See MPEP § 608.01(b).

Claim Objections

1. Claim 11 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is

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required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Suggested rewording is as follows:

The fibers of Claim 10 wherein the polyol is an acyclic polyol selected from...

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,5-7, 9-12, and 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hansen et al (6340411) in view of Cook et al (562740).

Hansen et al discloses a crosslinked cellulosic product comprising cellulose fibers, α -hydroxy polycarboxylic acid species of citric or tartaric acid (col 4, lines 32-45 and 56) and a polyol species of sorbitol, (col 59, lines 29-30). The disclosure teaches that both α -hydroxy polycarboxylic acids and polyols can cause intrafiber crosslinking (col 34, lines 4-6, 20-28). The polyol can be present in an amount from 1% to 80 % by weight of the fibrous material (col 6, lines 8-10). Examples are given of the fibrous product with a wet bulk of 16.1 and 19.4 cc/g (col 41, lines 49-50).

Hansen does not teach a brightness greater than 69 or greater than 79 % ISO.

Cook et al discloses individualized polycarboxylic acid crosslinked fibers with a brightness of 86 as having a better aesthetic appeal to customers (col 3, lines 8-12, 51-52).

The art of Hansen et al, Cook et al and the claimed invention are analogous because they are from the same science of providing water absorbent crosslinked fibers. It would have been obvious at the time the invention was made to a person with ordinary skill in the art to obtain the claimed brightness criterion in the process of Hansen in view of Cooks disclosed values to make the crosslinked fibers appealing to customers.

3. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hansen et al (6340411) in view of Cook et al (562740) and further in view of Hatsuda et al (6562879).

Hansen et al and Cook et al do not teach that the fibers have an "L" value greater than about 94.5, or an "a" value between about –1.55 and –0.60, or a "b" value less than about 8.50.

Hatsuda et al discloses a structure containing a water-absorbent crosslinked polymer resin powder with color scale values "L" (lightness scale), "a" (red-green scale) and "b" (yellow-blue scale) as reproduced below (col 16, lines 6-12).

The arbitrarily pulverized water-absorbent resin powder, according to the present invention, further has an L value of preferably not lower than 85 in lightness (lightness index), and an a value preferably in the range of +-2 and a b value preferably in the range of 0~9 both in chromaticity (chromaticness index), as measured with a device such as a spectroscopic color difference meter.

Hatsuda et al teaches that color out of the specified range is not favorable to customers (col 16, lines 13-19).

The art of Hansen et al, Cook et al and Hatsuda et al and the claimed invention are analogous because they are from the same science of providing water absorbent

crosslinked polymers. It would have been obvious at the time the invention was made to a person with ordinary skill in the art to obtain the criterion for "L", "a", and "b" in the process of Hansen et al in view of Cook et al and further in view of Hatsuda et al to make the crosslinked fibers aesthetically favorable to customers.

Claims 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over 4. Hansen et al (6340411) in view of Cook et al (562740) and further in view of Jewell et al (US Patent Publication 2003/0205342).

Hansen et al and Cook et al do not teach the use of malic acid as a crosslinking agent.

Jewell et al claims the use of citric acid, tartaric acid and/or malic acid as crosslinking agents (Claim 3) for crosslinking cellulosic fibers. Jewell et al further teaches that citric acid, tartaric acid and/or malic acid are three out of a variety of crosslinking agents known in the art (paragraph 24).

The art of Hansen et al, Cook et al, Jewell et al and the claimed invention are analogous because they are from the same science of providing chemically crosslinked fibers. It would have been obvious at the time the invention was made to a person with ordinary skill in the art to use the claimed crosslinking agents in the process of Hansen et al in view of Cook et al and further in view of Jewell et al.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Omum, 686 F.2d 937, 214 USPQ 761 (CCPA

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1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 5. Claims 1, 5-8 and 10-15 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over (renumbered) claims 1-9 and 11-12 of copending Application No. 10/748977. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claimed fibers in the instant invention are obvious by the method claimed in the copending application (i.e.-by following the method in the copending application, a person with ordinary skill in the art would expect to make the fibers claimed above. Conversely, a person with ordinary skill in the art would not expect to make the same claimed fibers using a different method than that in the conflicting application).
 - Claim 1 of the instant application is obvious in view of Claims 1, 7-9 and 11-12 of the copending application for the reasons given above. Claim 1 of the copending application does not specify C₄-C₁₂ polyols. Referenced Claims 7-9 and 11-12 above cite specific polyols in the C₄-C₁₂ range.
 - Claim 5 of the instant application reads the same as Claim 2 of the copending application if the word "method" is replaced by the word "fibers".
 - Claim 6 of the instant application reads the same as Claim 3 of the copending application if the word "method" is replaced by the word "fibers", the words "α-

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hydroxy polycarboxylic" are inserted before the word "crosslinking", and the referenced Claim "2" is replaced by "5". The species listed in each claim are the same α -hydroxy polycarboxylic species.

- Claim 7 of the instant application reads the same as (renumbered) Claim 4 of the copending application if the word "method" is replaced by the word "fibers" and the referenced Claim "3" is replaced by "6".
- Claim 8 of the instant application reads the same as (renumbered) Claim 5 of the copending application if the word "method" is replaced by the word "fibers" and the referenced Claim "3" is replaced by "6".
- Claim 10 of the instant application reads the same as (renumbered) Claim 6 of the copending application if the word "method" is replaced by the word "fibers".
- Claim 11 of the instant application reads the same as (renumbered) Claim 7 of the copending application if the word "method" is replaced by the word "fibers" and the referenced (renumbered) Claim "6" is replaced by "10".
- Claim 12 of the instant application reads the same as (renumbered) Claim 8 of the copending application if the word "method" is replaced by the word "fibers" and the referenced (renumbered) Claim "7" is replaced by "11".
- Claim 13 of the instant application reads the same as (renumbered) Claim 9 of the copending application if the word "method" is replaced by the word "fibers" and the referenced Claim "6" is replaced by "10".

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 Claim 14 of the instant application reads the same as (renumbered) Claim 11 of the copending application if the word "method" is replaced by the word "fibers" and the referenced Claim "6" is replaced by "10".

 Claim 15 of the instant application reads the same as (renumbered) Claim 12 of the copending application if the word "method" is replaced by the word "fibers" and using the renumbered referenced Claim "10".

This is a <u>provisional</u> obviousness- type double patenting rejection because the conflicting claims have not in fact been patented.

- 6. Claims 1, 5-8, 10-12 and 16-17 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-8 and 12-13 of copending Application No. 10/815206.
 - Claim 1 of the instant application is obvious in view of Claims 1 and 12 of the copending application. Claim 1 of the copending application does not specify a Whiteness Index. The instant application does not exclude the use of bleached fibers or of bleaching the fibers. The composition of the fibers in the copending application is the same as that in the instant application, and the properties (i.e.-Whiteness) of both products are expected to be similar
 - Claim 5 of the instant application reads the same as Claim 2 of the copending application.
 - Claim 6 of the instant application reads the same as Claim 3 of the copending application except that the claimed species are in a different order and if the referenced Claim "2" is replaced by "5".

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 Claim 7 of the instant application reads the same as Claim 4 of the copending application if the referenced Claim "3" is replaced by "6".

- Claim 8 of the instant application reads the same as Claim 5 of the copending application if the referenced Claim "3" is replaced by "6".
- Claim 10 of the instant application reads the same as Claim 6 of the copending application.
- Claim 11 of the instant application reads the same as Claim 7 of the copending application if the referenced Claim "6" is replaced by "10".
- Claim 12 of the instant application reads the same as Claim 8 of the copending application if the referenced Claim "7" is replaced by "11".
- Claim 16 of the instant application specifies substantially the same brightness range as Claim 12 in the copending application.
- Claim 17 of the instant application specifies substantially the same wet bulk range as Claim 13 in the copending application.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 1-8, 10, and 12-16 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-11 of copending Application No. 10/748969. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claimed fibers in the instant invention are included as a species of the invention claimed in the copending application.

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 Claim 1 of the instant application is an obvious species of the product of Claim 1 of the copending application.

- Claim 2 of the instant application reads substantially the same as Claim 2 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 3 of the instant application reads substantially the same as Claim 3 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 4 of the instant application reads substantially the same as Claim 4 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 5 of the instant application reads the same as Claim 5 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 6 of the instant application reads substantially the same as Claim 6 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 7 of the instant application reads the same as Claim 8 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 8 of the instant application reads the same as Claim 7 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 10 of the instant application reads the same as Claim 9 of the copending application if the words "absorbent product" is replaced by the word "fibers".
- Claim 12 of the instant application reads the same as Claim 10 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 13 of the instant application reads the same as Claim 11 of the copending application if the word "product" is replaced by the word "fibers".

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 Claim 14 of the instant application reads the same as Claim 12 of the copending application if the word "product" is replaced by the word "fibers".

- Claim 15 of the instant application reads the same as Claim 13 of the copending application if the word "product" is replaced by the word "fibers".
- Claim 16 of the instant application specifies a brightness similar to that of Claim
 14 of the copending application.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure, Payne (5749863) and Sears (6620293). They disclose other polycarboxylic acid-crosslinked cellulosic absorbents.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis Cordray whose telephone number is 571-272-8244. The examiner can normally be reached on M - F, 7:30 -4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

STEVEN P. GRIFFIN SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1700

DRC